

Applicant: Mario Meggiolini
Application No.: 10/615,000

IN THE CLAIMS

1-35. (Cancelled)

36. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:
a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and
a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

~~The bicycle wheel hub of claim 30, wherein at least one of the plurality of strips has a plurality of extensions along a lateral edge thereof.~~

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37. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:
a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and
a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;
~~The bicycle wheel hub of claim 30, wherein at least one of the plurality of strips has a combination of a plurality of recesses and a plurality of extensions along a lateral edge thereof.~~

38. (Original) The bicycle wheel hub of claim 37, wherein the plurality of recesses are generally rectilinear.

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39. (Original) The bicycle wheel hub of claim 37, wherein the plurality of recesses are generally triangular.

40. (Cancelled)

41. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:
a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and
a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;
~~The bicycle wheel hub of claim 30, wherein the plurality of fabric plies are located on multiple sides of the hollow tubular body to form a complete layer of the hollow tubular body.~~

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42. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:
a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and
a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

~~The bicycle wheel hub of claim 30, wherein the plurality of fabric plies are provided in pairs on diametrically opposite sides of the hollow tubular body.~~

43. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:

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a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and

a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

~~The bicycle wheel hub of claim 30, wherein the pairs of the plurality of fabric plies are angularly spaced from each other when the pairs are viewed along the central hub axis.~~

44. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:

a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and

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a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

The bicycle wheel hub of claim 30, wherein the pairs of the plurality of fabric plies are spaced by approximately ninety (90) degrees when the pairs are viewed along the central hub axis.

45. (Cancelled)

46. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:

a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and

a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the

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plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

~~The bicycle wheel hub of claim 30, wherein the hollow tubular body has first and second ends and a central portion, an intermediate portion being located between the central portion and each of the first and second ends, the central portion having a first cross sectional thickness, the first and second ends having a second cross sectional thickness greater than the first cross sectional thickness, the intermediate portion having an increasing cross sectional thickness as one moves from the central portion outwardly.~~

47-48. (Cancelled)

49. (Currently amended) A bicycle wheel hub, having a hollow tubular body and an interior diameter that is spaced from a central hub axis extending longitudinally through the hollow tubular body, the hollow tubular body comprising:
a plurality of fabric strips each strip having a longitudinal axis, the plurality of fabric strips each having fibre fabric incorporated in a matrix material, each of the plurality of fabric strips being spaced from the central hub axis with the strip longitudinal axis oriented generally orthogonally to the central hub axis; and

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a plurality of fabric plies each ply having a longitudinal axis, each of the plurality of fabric plies having fibre fabric incorporated in a material matrix, the plurality of fabric plies each being spaced from the central axis with the ply longitudinal axis oriented generally parallel to the central hub axis, wherein the plurality of fabric plies are integrated with the plurality of fabric strips;

~~The bicycle wheel hub of claim 30, wherein the hollow tubular body is asymmetrical about a central plane oriented orthogonally to the central hub axis.~~

50-54. (Cancelled)

55. (Currently amended) A bicycle wheel hub, comprising:

a plurality of fabric layers spaced from a central hub axis, the plurality of fabric layers each having fibre fabric incorporated in a material matrix, wherein the plurality of fabric layers are integrated and at least one of the plurality of fabric layers has a plurality of recesses along a lateral edge thereof;

~~The bicycle wheel hub of claim 54, wherein at least one of the plurality of fabric layers has a combination of the plurality of recesses and a plurality of extensions along the lateral edge thereof.~~

56. (Cancelled).